



# HAZARDOUS MATERIALS WORKSHEET

## For Uniform Fire Code Classification

For questions concerning this form contact Michael Trabue at (425) 556-2231

HMIS RATING	HEALTH HAZARDS (29 CFR 1910.1200)					For questions concerning this form contact Michael Trabue at (425) 556-2231						
	ORAL	DERMAL	INHALATION	SKIN IRRITATION	EYE IRRITATION							
	LIQUIDS, SOLIDS	LIQUIDS, SOLIDS		LIQUIDS/SOLIDS/GASES	LIQUIDS, SOLIDS	FLAMMABILITY (NFPA 704)		REACTIVITY (NFPA 704)				
	LD50 Rat (mg/kg)	LD50 Rabbit (mg/kg)	LC50 Rat (ppm) (mg/kg)	SKIN IRRITATION	EYE IRRITATION	LIQUIDS, GASES	SOLIDS	PYROPHORIC	OXIDIZER	ORGANIC PEROXIDE	WATER REACTIVE	UNSTABLE (REACTIVE)
HIGHLY TOXIC 4	0 – 1	0 – 20	/			Flammable gases & cryogenics Class IA liquids Mists of flammable liquids FP<73°F, BP<100°F	Ignitable dusts (in air) of combustible solids. 420 microns or less in dia. (will pass through a U.S. No. 40 Standard sieve)		Material readily capable of detonation or explosive decomposition at normal temperatures.  CLASS 4	CLASS I		Detonation or explosive decomposition at normal temperatures.
3	>1 – 50	>20 – 200	/	CORROSIVE		Class IB & IC liquids Liquids ignitable under ambient temperature conditions FP <73°F, BP≥100°F FP ≥73°F, FP<100°F	Solids ignitable under ambient temperature conditions. Ignition temperature below 212°F	Chemical which will spontaneously ignite in air at or below a temperature of 130°F (54.5°C)	Material readily capable of detonation or explosive reaction with strong source or must be heated under confinement before initiation.  CLASS 3	CLASS II	Materials which react explosively with water.	Detonation or explosion hazard with strong source or heated under confinement before initiation.
				Severely irritating and/or corrosive.	Corrosive, irreversible corneal damage.							
TOXIC 2	>50 – 500	>200 – 1,000	/	IRRITANTS/SENSITIZERS		Class II & IIIA liquids 100° F< FP <200°F II 100° F< FP <140°F IIIA 140° F< FP <200°F	Solids & semi-solids which readily give off flammable vapors.		Normally unstable, readily undergoes violent chemical change but does not detonate.  CLASS 2	CLASS III	May react violently with water.	Normally <b>unstable</b> and <b>no</b> detonation.
				Primary irritant, sensitizer.	Irritating or moderately persisting more than seven days with reversible corneal opacity. Positive Draize test.							
NON TOXIC 1	>500 – 5,000	>1,000 – 5,000	/	Slightly irritating.*	Slightly irritating but reversible within seven days.*	Class IIIB liquids FP ≥ 200°F	Semi-solids with F.P. >200°F, ordinary combustible materials.		Normally stable; can be unstable at elevated temperatures and pressures.  CLASS 1	CLASS IV	May react with water but <b>not</b> violently.	Normally stable. Unstable at elevated temperatures and pressures.
0	>5,000	>5,000	/	Essentially nonirritating.	Essentially nonirritating.	Material will not burn in air at 1500°F for >5 min.			Normally stable; even under fire conditions.  NO CLASS RATING	CLASS V	Not reactive with water.	

**\*NOTE:** Judgement should be used at this level of irritant/sensitizer. This lower level rating may not warrant classification for fire code purposes. Consult MSDS or manufacturer for additional information.

**HEALTH EFFECTS OF MIXTURES:** Use data on any constituent chemical comprising 1% or more of the mixture (29 CFR 1910.1200 d,ii)  
**EXCEPTION:** Carcinogens in mixture - 0.1% or more

REFERENCES: 1997 UNIFORM FIRE CODE - APPENDIX VI-A, ARTICLE 1, ARTICLE 2 & ARTICLE 80.  
29 CFR 1910.1200.  
49 CFR, PARTS 100 TO 177 (10-1-90)  
“HMIS CLASSIFICATION SYSTEM”, PAINT MANUFACTURERS ASSOCIATION (1985).  
NFPA STANDARD NO. 704, IDENTIFICATION OF THE FIRE HAZARDS OF MATERIALS”